

AS THE SCIENTIFIC STUDY
OF RESEARCH AND ARTIS-
TIC ACTIVITY . . .

ZETETICS OFFERS AN ALL-
ENCOMPASSING GUIDE FOR
ORIENTATION IN ANY
SCHOLARLY ACTIVITY
INCLUDING STUDY, RE-
SEARCH, AND TEACHING.

THEREBY, ONE IS AIDED IN
UNDERSTANDING AND UTI-
LIZING THE PROCESSES
WHICH LEAD TO DISCOV-
ERIES, INVENTIONS, AND
THE SOLUTION OF HUMAN
PROBLEMS.

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A DETAILED DESCRIPTION OF
zetetics is available in Prof. Tyko-
ciner's latest book, Outline of
Zetetics: A Study of Research and
Artistic Activity.

It is available for \$2.00 from Engi-
neering Publications Office, 112
Engineering Hall, Urbana, Illinois
61801

A CREDIT COURSE IN ZETETICS
is offered by Prof. Tykociner. It is
listed as Electrical Engineering 271
and 497 and offers 2 hours or 1/2
unit credit. It meets from seven to
eight o'clock on Tuesday and Thurs-
day evenings. For further informa-
tion inquire at the Electrical Engi-
neering Departmental office.

Z E T E T I C S

ENCOMPASSES

The Evolutionary Development
of Science, Research and
Artistic Activities

An All-Inclusive System of
Knowledge

An Inventory of the Arts and
Sciences

A Search for Gaps in Knowledge

The Study of Abilities Required
for Creativity

The Selection and Formulation
of Research Problems

Methods Basic to Research in
all of the Arts and Sciences

Education to Facilitate Re-
search and Artistic Activity

The Organization and Develop-
ment of Research Centers

WHY ZETETICS ?

The study of specialties is well developed in many fields, but it is also important to study the generality from whence specialties are derived. This is the zetetic point of view which emphasizes the unity of all knowledge and studies the interrelations between its parts. Major advances in man's quest for knowledge are more and more being made by combining previously unrelated sciences; zetetics provides a guide for encouraging and utilizing this trend.

The advancement of knowledge is too often seen as the "unrelated" work of researchers in "different" areas of knowledge. Zetetics studies the "similarities" and "unity" of the goals of all creative efforts.

Research was once only the hobby of a few gifted individuals . . . now it is a multi-billion dollar enterprise on which society is vitally dependent. Zetetics offers a scientific basis for coordinating and aiding the thousands of researchers and artists. Just as medicine, agriculture, and other professions are based on scientifically derived principles, the vocation of research should have a fund of scientific knowledge about research for creative persons to draw on.

How are individual researchers and research teams best utilized? What conditions foster creativity? How should research problems be selected? These are some of the questions that zetetics tries to answer.

Zetetics is a new area of knowledge, but already eight subdivisions have been identified and studied. The first subdivision, zetegeny, provides the background for zetetics. It is the study of the emergence and growth of the arts and sciences as an evolutionary process Taxillogy, the second subdivision, is concerned with developing a classification of all the arts and sciences as a means of bringing out mankind's most important unsolved problems Problematology studies the best methods of selecting and formulating problems The fourth subdivision studies the abilities necessary for being successful in scientific research or in the arts; it is especially interested in creativity General Methodology studies the methods of research common to all arts and sciences The sixth subdivision studies the conditions and incentives which stimulate creative individuals Education for research and artistic activity comes next And finally, the eighth subdivision is the study of the organization and development of research centers -- the focal points of the modern day search for new knowledge.

Many years of study have led to the present stage of development of this new interdisciplinary science. A course is now offered and a text and general explanation have been formulated in the book, Outline of Zetetics (see back).

The need for adopting a general point of view is recognized in zetetics; thus, zetetics will provide the necessary information for educating and guiding the researchers, teachers, and students of the future.

"Zetetics" is derived from the Greek verb zeteo, which means "to investigate." "Zetegeny" is derived from zeteo and the suffix geny, meaning "origin." "Taxillogy" was derived from the Greek words taxis, meaning "arrangement," and logos, meaning "science."

Zetetics was founded and has been developed by Joseph T. Tykociner. He is a Professor Emeritus of the University of Illinois Department of Electrical Engineering.